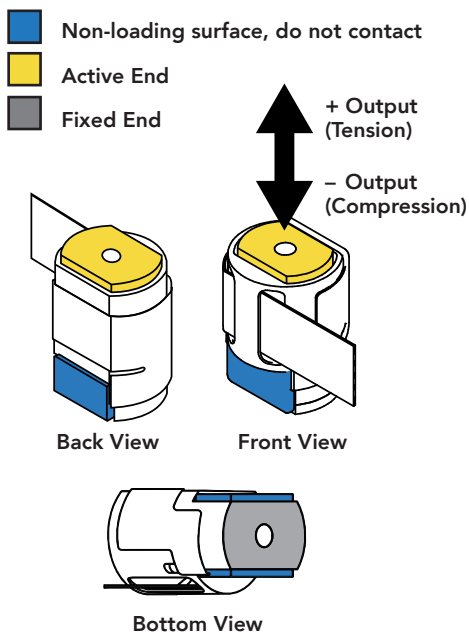


## FEATURES

- Very lightweight (0.5g), Nano miniature size (4x5 mm)
- For use in both tension and compression
- Through hole design with mounting provisions
- Low Power Consumption suitable for wearable or portable devices
- High Safe Overload Capability
- Ultra-Low deflection
- High Natural Frequency



## SPECIFICATIONS

### PERFORMANCE

Nonlinearity	±0.5% of RO
Hysteresis	±0.5% of RO

### ELECTRICAL

Rated Output (RO)	0.5 mV/V nom
Excitation (VDC or VAC)	5 V max
Bridge Resistance	1000 Ohm nom
Zero Balance	±50% of RO
Insulation Resistance	5G Ohm @ 50 VDC
Connection	4 Pin, 0.5 mm pitch 3" flex cable
Wiring Code	WC8
RFID Output	Ultra-high frequency range of 860 - 960 MHz Pulse-Interval Encoding (PIE)

### MECHANICAL

Weight	0.001 lb [0.5 g]
Safe Overload	200% of RO
Deflection	0.00005 in
Material	17-4 PH Stainless Steel
IP Rating	IP40

### TEMPERATURE

Operating Temperature	-60 to 200°F [-51 to +93°C]*
Compensated Temperature	60 to 160°F [16 to 71°C]
Temperature Shift Zero	±0.03% of RO/°F [±0.054% of RO/°C]
Temperature Shift Span	±0.02% of LOAD/°F [±0.036% of LOAD/°C]

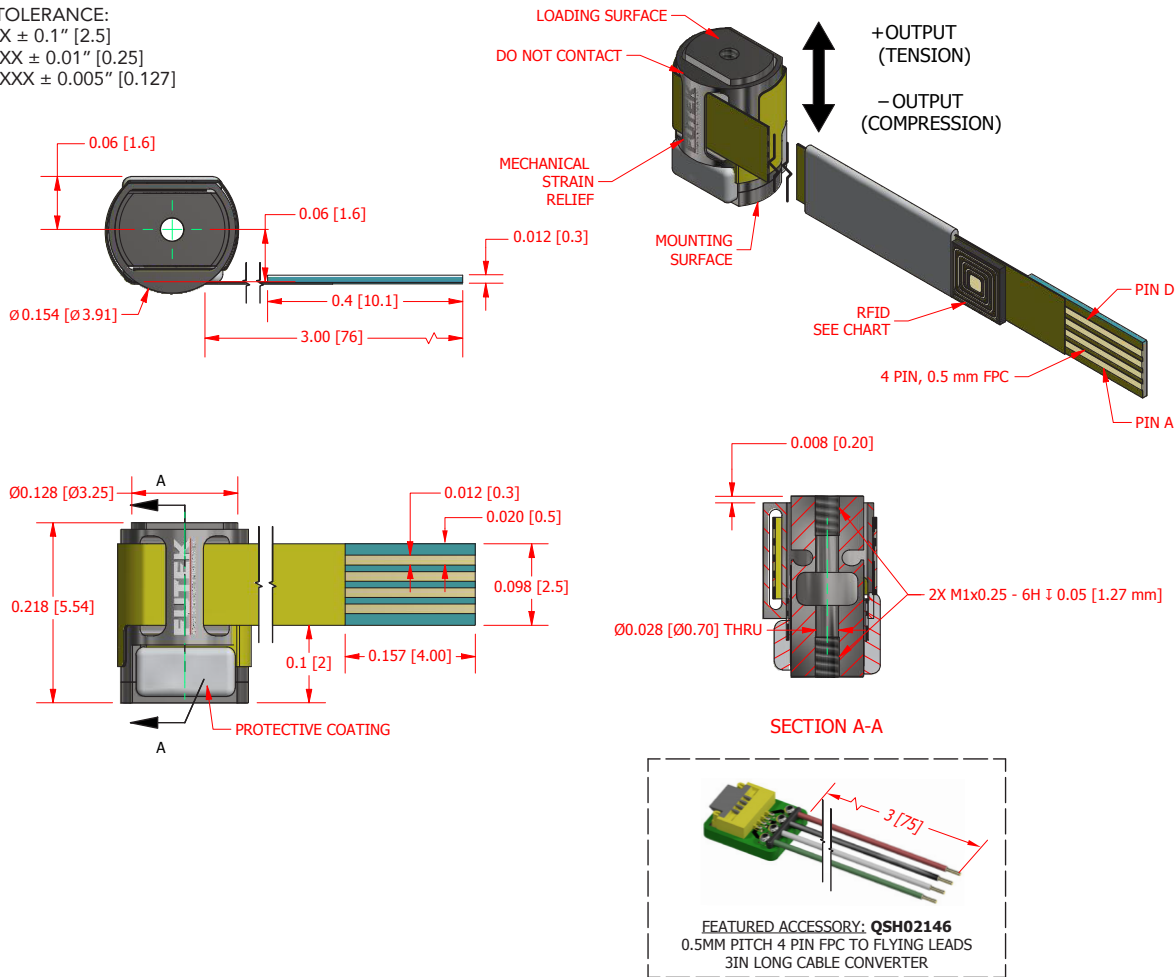
### CONFORMITY

RoHS	EU 2015/863
CE	EN55011; EN61326-1
RFID Protocol	ISO/IEC 18000-6 Type-C EPCglobal™ Class1 Generation 2

\*in a humidity controlled environment to prevent condensation

**DIMENSIONS** inches [mm]

TOLERANCE:  
 .X ± 0.1" [2.5]  
 .XX ± 0.01" [0.25]  
 .XXX ± 0.005" [0.127]



WIRING CODE WC8		
PIN	COLOR	
A	RED	+ EXCITATION
B	BLACK	- EXCITATION
C	WHITE	- SIGNAL
D	GREEN	+ SIGNAL

CAPACITIES				
ITEM #	lb	N	Natural Frequency (kHz)	RFID
QSH02142	5	22.2	71	No
QSH02143	10	44.5	98	No
QSH02154	5	22.2	71	Yes
QSH02155	10	44.5	98	Yes

Drawing Number: F11524-A

FUTEK reserves the right to modify its design and specifications without notice.

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RoHS



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